Title (en)

SYSTEMS AND METHODS FOR REDUCING THERMAL TAILS ON OPTICAL TIME DOMAIN REFLECTOMETER (OTDR) MEASUREMENTS

Title (de)

SYSTEME UND VERFAHREN ZUR REDUZIERUNG VON THERMISCHEN RÜCKSTÄNDEN BEI MESSUNGEN MIT OPTISCHEM ZEITBEREICHSREFLEKTOMETER (OTDR)

Title (fr)

SYSTÈMES ET PROCÉDÉS DE RÉDUCTION DE QUEUES THERMIQUES SUR DES MESURES DE RÉFLECTOMÉTRIE OPTIQUE TEMPORELLE (OTDR)

Publication

EP 2842243 B1 20170607 (EN)

Application

EP 13757706 A 20130306

Priority

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- US 2013029385 W 20130306

Abstract (en)

[origin: WO2013134394A1] An optical communication system has a power dissipating element that is thermally coupled to an optical transmitter. The currents supplied to the transmitter and the power dissipating element are controlled such that the sum of such currents is constant. Accordingly, temperature fluctuations in the transmitter due to patterns in the transmitted data are prevented or at least reduced, thereby reducing thermal tails on measurements. In one exemplary embodiment, a light source is used as the power dissipating element, and the output of such light source is beneficially used to probe another optical fiber or to enhance the OTDR performance or analysis.

IPC 8 full level

H04B 10/071 (2013.01); **G01M 11/00** (2006.01); **H04B 10/25** (2013.01)

CPC (source: EP US)

G01M 11/3118 (2013.01 - EP US); **G01M 11/3154** (2013.01 - EP US); **H04B 10/071** (2013.01 - EP US)

Citation (examination)

None

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DOCDB simple family (publication)

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